

Title (en)  
Surface-mount antenna and a communication apparatus using the same

Title (de)  
Oberflächenmontierte Antenne und Kommunikationsgerät mit einer derartigen Antenne

Title (fr)  
Antenne montable en surface et appareil de communication utilisant celle-ci

Publication  
**EP 0814535 A3 19990922 (EN)**

Application  
**EP 97109842 A 19970617**

Priority  
JP 15815396 A 19960619

Abstract (en)  
[origin: EP0814535A2] A surface-mount antenna (10) includes a radiation electrode (2) formed on one or more surfaces of a rectangular paralleliped base member (1) comprising a dielectric or a magnetic substance so as to have one end as an open end and another end as a first ground electrode (3), a feeding electrode (4) formed on the surface or surfaces, and a second ground electrode (5) formed in proximity to the open end of said radiation electrode (2). <IMAGE>

IPC 1-7  
**H01Q 9/04**; **H01Q 1/24**

IPC 8 full level  
**H01Q 13/08** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 9/04** (2006.01)

CPC (source: EP US)  
**H01Q 1/243** (2013.01 - EP US); **H01Q 9/0407** (2013.01 - EP US); **H01Q 9/0457** (2013.01 - EP US)

Citation (search report)

- [A] EP 0526643 A1 19930210 - MITSUBISHI ELECTRIC CORP [JP], et al
- [A] WO 9524745 A1 19950914 - CETELCO AS [DK], et al
- [A] US 5365246 A 19941115 - RASINGER JOSEF [AT], et al
- [A] US 5075691 A 19911224 - GARAY OSCAR [US], et al
- [PXL] EP 0746054 A1 19961204 - MURATA MANUFACTURING CO [JP]
- [EL] EP 0790663 A1 19970820 - MURATA MANUFACTURING CO [JP]

Cited by  
EP2117073A1; FR2860927A1; EP0982798A3; EP2369675A4; GB2486362B; EP1039576A1; AU748232B2; US6097339A; EP1030402A3; EP2242144A4; US6903690B2; US11081782B2; US9608319B2; WO2005036697A1; WO9943039A1; WO9967851A1; US7978141B2; EP2183795A4; EP1941579A1

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